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STATE OF MONTANA

BULLETIN

OF THE

Department of Public Health

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No. 2

MONTANA STATE BOARD OF HEALTH

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HELENA, MONTANA.

Published Monthly at Helena, by the State Board of Health.

"The science of disease prevention, if properly applied, can add fifteen years to the present average length of human life."—Prof. Irving Fisher, Yale.

This Bulletin will be mailed monthly to any person in Montana upon request mailed to the Secretary of the State Board of Health at Helena.



THE EFFECT OF DIRTY YARDS ON THE HEALTH AND MORALS OF A COMMUNITY.

(By Helena Haderlie—Lewistown.)

If we only realized that a great many of the diseases of the vicinity are caused by the germs which live in the slop piles and cess-pools of our own back yards, we would be more careful. Some of the yards of Lewistown are so dirty that they are a disgrace to their owners and the town also. If some of the people who have so much time to go visiting and shopping would spend part of their time cleaning their yards, they would soon realize the difference both in looks and in the purity of the air.

In our town there are splendid streams of pure water into which people have thrown all kinds of trash and offal and then use water from an old rusty pump which is only the seepage of dirty yards and barns. Yet we wonder how the typhoid fever started and we get the health officers to examine the shipped ice and see if the germs are not in it. Yet how many of us look at our own yards full of old manure piles, old cans, dirty cess-pools and all kinds of filth which can breed disease. Oh, no! We never think of this. The people of this town could not be so dirty as to get a disease started from filth. It must come from the outside world.

“If we could see ourselves as others see us
It would from many a blunder free us.”

So runs the old and very true saying. If the people of Lewistown could see and realize the condition of the yards and streets, they would know what the strangers and outsiders think.

In the yard next to ours the cess-pool is dirty and perhaps reeking with germs, and the outhouses are not ventilated or disinfected and have stood in the same place for years. Dish-water and slops of all kinds are thrown just outside the door into the yard and yet we expect to be free from disease. Such is the selfishness and lack of consideration some people have for others, when they allow such things to make life miserable for their neighbors.

Out in the country if you are not clean and neat about your premises, none are affected but yourself and family. But in the city one has to think of the public at large and be more cleanly. If we are dirty and filthy we cannot expect to have

the love and respect of our fellow men. Dirt and filth is against all the laws of nature and nature rebels. Cleanliness is next to Godliness and if we live up to this we will find that people will respect us and look upon us as model citizens.

In the Western cities one finds less filth and disease, although there is more than there should be, but in the great eastern cities among the tenement houses, there are yards not fit for a respectable pig. Yet it is the habitation of human beings who should be higher minded and above living like this. No animal on earth is as dirty as a dirty human being. God put plenty of good clean water on this earth and it does not cost very much to be clean, even if we are poor.

The health laws which compel people to keep their premises clean should be strictly enforced. Also the alleys back of Main Street should be kept cleaner than they are, as it is there that the meat and groceries enter the shops from which they are sold to the public. Also meat and milk will take up germs more quickly than anything else in the way of food.

Main Street of Lewistown is about the dirtiest street in the business part of any city I ever saw. There is paper, peelings of fruit, old cans, manure and refuse of all kinds which should not even be in the alleys and sewers, let alone Main Street.

There should be garbage cans on Main Street into which all peelings and rubbish could be thrown. If the streets and sidewalks are clean and no rubbish in the streets, strangers from other cities will not see it and remark on the fine sanitary conditions. It will bring a good moral class of people to the town.

We will also find that property is more valuable in a city where things are kept in a sanitary condition. It is a bad recommendation to a city to have streets and yards littered with paper and refuse, the alleys full of mud and filth. It shows a lack of pride and public spirit.

The business men of Lewistown should have more pride in their city and see that there is a little more cleaning done in the streets and alleys. There are vacant lots covered with old rubbish of all kinds, old broken down sheds and dirty, weedy yards which if cleaned up would look much better and show that the people were public spirited citizens.

The other night one of the business men of Lewistown told me I wasn't giving the town a fair deal; that they tried to keep it clean all they could. The next morning early I hap-

pened to be out walking with my mother and on Sixth Avenue alone I saw enough dirt to pollute the Missouri River, pieces of wood, paper and rubbish of all kinds, and behind the best hotel in town there was dirt enough to cause most any kind of pestilence.

I know women who clean from early till late and still wonder where the dirt comes from. They throw the scrub water out by the back steps and make big puddles of dirty mud which is afterwards tracked into the house again.

When the people of Lewistown will open their eyes to the filth and disorder in many parts of the town, and take steps to have it done away with, our city will appear to a better advantage, and property will be worth more. I hope this will be in the near future, for now it is hard to get a clean and decent looking place for rent in many parts of the town.

Another thing you will notice if you keep your eyes open is the effect that dirty and filthy surroundings have on people morally. Dirt not only poisons the body, but also the mind. It makes criminals of boys and girls who might have made noble men and women, if raised in different surroundings. Mothers and fathers should think of this. Children should be brought up clean and in neat surroundings even if the parents are poor. Cleanliness brings health and comfort and when we find it we will also find happiness and morality. Books and sensational papers poison the mind no more than evil companions and dirty surroundings. You will find that everything is much better if kept clean, even plants and animals. Nature does not like dirt.

Let us try and do away with dirt and filth so degrading to the human race, and make a better world of this one. We can do it if we practice cleanliness and set the example to others. Hoping that this will help make the people of Lewistown open their eyes to their surroundings and clean up the vacant lots, alleys and barns and so do away with flies and contagious diseases, I leave the subject with them.

The different health officers, in scoring places, seem to look at the matter from different standpoints, for instance; three health officers scored the same place, each gave this place a decidedly different rating. It would therefore, be unfair to the places scored by these three different men, to publish the rating as given by them.

The State Board of Health has employed a Special Inspector and the grades published will be those given by this Inspector, in order that the places in different localities may have a uniform standing.

DAIRIES.

Helena—	Grade.
S. S. Johnson	80
Wm. Burton	75
J. L. Mosher	89
A. G. Amacker	96
F. R. Brewer	80
F. Beinhorn	75
A. M. Whitcomb	75
A. Erb	80
E. W. Colby	75
O. R. Samson	80
D. A. McDonald	96
L. McKinney	75
Wm. Fowler	90
James McHugh	90
J. M. Snyder	96
H. C. Burgess	94
F. M. Pyle	83
Con Peterson	94
L. A. Ramsey	91
McComas & Middlemas	95
J. L. Bompart	97
Jos. Schnyder	89
L. P. Fowler	95
D. Clager	92

Big Timber—	Grade.
Geo. R. Reynolds	92
C. J. Busha	87

Billings—	Grade.
Florian Comastral	73
A. D. Hornaday	95
Eeraerts Bros.	91
Yegen Bros.	90
J. L. White	88

Forsyth—	Grade.
G. P. Shorey	60

BAKE SHOPS AND CONFECTIONERIES.

Forsyth—	Grade.
Stevens & Shaw	92

Laurel—	Grade.
C. H. Horen	83

Bozeman	Grade.
Maud Hays	92
A. Kuntze	100
Aug. Nuber	87
D. P. Dougherty	80
R. J. Roschie	76

Billings—	Grade.
J. H. Jackson	80
W. Y. Kain	84
G. Hawkinson	73
Mrs. Grace Edy	93

Big Timber—	Grade.
Brammer & Brammer	75

Helena—	Grade.
J. D. Flesher	78
Milton Gamer	79
Brazier Bros Co.	89
J. S. Smith	90
John Wendel	90
A. B. Lightner	89
U. G. Shelton	90
Albert Hildenstab	84

RESTAURANTS AND HOTELS.

Helena—	Grade.
T. Scharff	90
John Roempp	87
F. J. Wise	86
W. D. Miller	81
M. Graham	92
A. Milch	80
O'Connell & Galvin	90
George Mindraff	64
Oscar Stynsberg	66
Wong Yuen	79
Mrs. James Jobb	86
Henry E. Carnstensen	91
A. H. Hunter	79
Hilda Yttendahl	95
N. P. Railway	91
James Germant	86
J. R. Gleason	83
Weiss & Melhorn	86
D. Hobbs	77
Ah Sam	83
Henry Rossman	90
Wong Yuen	85
Chas. Schugeri	81
J. C. Emerson	85
Clara Fox	83
Fred R. Munger	81
Y. W. C. A.	88

Big Timber—	Grade.
Sam Wah	82
Mrs. J. S. Jarett	78
L. P. Cady	89
Tom Kue	70

Laurel—	Grade.
Mrs. J. J. Frants	77
Love & Gerard	83
Mrs. Buaggen	80
E. J. Bengen	86
M. L. Kilpatrick	90
Fred Gilbert	76
D. Boyington	94

Forsyth—	Grade.
N. P. Railway	79
J. F. Files	88
J. C. Choissor	73

HOTELS AND RESTAURANTS.

Bozeman—		Grade.
James W. Edwards	78	
Palmer & Kelly	85	
C. P. Maury	80	
M. J. Aschim	87	
International Restaurant ..	87	
Chin Ah Ban	76	
S. Ode	63	
Billings		Grade.
L. G. Brannon	83	
H. Y. Kanakita	70	
T. J. Boykin	95	
J. R. Conway	85	
J. E. Cole	65	
Tom Hee	73	
D. O. Jackson	65	
L. Deck	90	
A. Pfeiffer	77	
Toy (N. P.)	62	
Exchange Restaurant	87	
Jones & Fenwick	70	
Louie Kam	85	
T. Tanahara	62	
N. P. R. R.	94	
W. H. Carlin	77	
C. B. Myers	76	
Ida Frisbee	83	
J. M. Booth	72	
Y. M. C. A.	90	
Elk's Club	100	
Y. W. C. A.	86	
A. B. Corwin	70	

SLAUGHTER HOUSES AND MEAT MARKETS.

Big Timber—		Grade.
A. L. Bray—Sl. House....	65	
A. L. Bray—Meat Market..	83	
H. Gernitz—Sl. House	90	
H. Gernitz—Meat Market..	92	
Helena—		Grade.
Wood & Tongren—Meat Market	80	

Moran & Weggenman—Market	85	
Helena Meat Co.—Meat Market	87	
Chas. Hageman—Meat Market	90	
Anton Nigey—Meat Market ..	85	
Helena Meat Co.—Meat Market	30	
Huber & Haferburg—Meat Market	30	
Wm Gieseke—Meat Market ..	85	
J. A. Raab—Meat Market..	80	
S. R. Nievel—Meat Market ..	80	
Oscar Scheewe—Sl. House ..	80	
Ernest Rossman—Sl. House ..	80	
Laurel—		Grade.
A. G. Adams—Meat Market ..	85	
Forsyth—		Grade.
J. Z. Northway—Meat Market	85	
Billings—		Grade.
P. B. Merrill—Meat Market ..	85	
P. B. Merrill—Sl. House..	95	
J. Zywert—Sl. House	83	
J. Zywert—Meat Market ..	90	
C. S. Crosser—Sl. House ..	80	
O. M. Hanson Co.—Meat Market	85	
Hampton Bros.—Meat Market ..	65	
John J. Hoffman—Meat Market	80	
Henry Gilsdorf—Meat Market ..	65	
Wm. Roberts—Meat Market ..	85	
Bozeman—		Grade.
Foerschler Bros—Meat Market	100	
Walters & Sandeen—Meat Market	90	
Happel & Goering—Meat Market	75	
John Klefer—Meat Market..	80	
Kopp Co.—Meat Market ..	95	

MILK ANALYSIS.

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
C. W. Sparr	Columbus	15.12	6.80	Standard.
Dr. J. Craig	Columbus	12.90	3.65	Standard.
E. Hedges	Columbus	11.16	3.20	Low in solids.
Mrs. W. P. Adams	Columbus	14.21	5.70	Standard.
Mrs. J. H. Calhoun	Columbus	13.06	4.65	Standard.
Mrs. Silas Stone	Columbus	15.23	5.25	Standard.
Mrs. Alice Pleasant	Havre	.....	2.59	Sour, not analyzed.
Patrick Herron	Havre	.....	4.00	Sour, not analyzed.
J. L. Thompson	Havre	.....	3.30	Sour, not analyzed.
Andrew Holcin	Havre	.....	3.45	Sour, not analyzed.
Mr. Peelman	Havre	.....	3.20	Sour, not analyzed.
John Reilly	Havre	.....	4.60	Sour, not analyzed.
John Sortain	Havre	.....	3.50	Sour, not analyzed.
John Lynch	Havre	.....	3.55	Sour, not analyzed.
John Bowlsby	Havre	.....	4.00	Sour, not analyzed.
J. W. Clark	Havre	.....	4.40	Sour, not analyzed.
H. C. May	Havre	.....	2.50	Sour, not analyzed.
Wm. Miller	Conrad	.....	2.50	Sour, not analyzed.
Mrs. C. C. Stewart	Conrad	.....	3.20	Sour, not analyzed.
Mrs. J. D. Ryan	Conrad	.....	6.00	Sour, not analyzed.
D. V. Gaike	Conrad	.....	4.50	Sour, not analyzed.
Ryan Cafe	Conrad	.....	3.65	Sour, not analyzed.
Conrad Cafe	Conrad	.....	3.80	Sour, not analyzed.
E. P. Say	Laurel	.....	4.20	Sour, not analyzed.
E. A. Erickson	Big Timber	12.82	3.80	Standard.
Raumer & Raumer	Big Timber	13.70	4.40	Standard.
Mrs. C. Crest	Big Timber	12.45	3.95	Standard.
Mrs. G. M. Briner	Big Timber	14.36	4.95	Standard.
Mrs. E. L. Harris	Big Timber	13.25	4.15	Standard.
M. R. Jeffrey	Hamilton	13.59	4.75	Standard.
J. C. Moore & Son	Hamilton	.....	2.35	Sour, not analyzed.
Reimel & Smith	Hamilton	.....	3.35	Sour, not analyzed.
Catherine Fatulla	Hamilton	.....	2.90	Sour, not analyzed.
Mrs. J. Carrigan	Hamilton	13.30	4.25	Standard.
E. E. Smith	Hamilton	12.47	3.65	Standard.
R. H. Smithley	Hamilton	16.68	7.00	Standard.
W. T. Tyler	Hamilton	.....	4.35	Sour, not analyzed.
C. E. Leibel	Hamilton	13.26	4.75	Standard.
John Kalberer	Hamilton	12.16	3.95	Low in solids.
Beak Hotel	Hamilton	.....	3.15	Sour, not analyzed.
Guernsey Dairy	Great Falls	13.02	3.99	Standard.

MILK ANALYSIS.—(Continued).

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
Mrs. Schaubloger	Great Falls	11.89	3.65	Low in solids.
Aystruin Dairy	Great Falls	.....	3.30	Sour, not analyzed.
Jette Young	Great Falls	13.55	4.40	Standard.
Boston Heights	Great Falls	11.48	3.05	Low in fat and solids.
Montana Dairy	Great Falls	12.32	3.90	Standard.
Clover Leaf Dairy	Great Falls	12.73	3.70	Standard.
City Dairy	Great Falls	11.29	3.35	Low in solids.
Walters Cafe	Great Falls	11.71	3.70	Analysis incomplete.
W. S. Custer	Missoula	14.03	5.40	Standard.
Myer & Albers	Missoula	12.60	3.95	Standard.
Otto Quast	Missoula	12.23	3.60	Standard.
Richli Brothers	Missoula	13.30	4.05	Standard.
L. M. Wittrup	Missoula	12.51	3.85	Standard.
Barber & Marshall	Missoula	12.82	3.80	Standard.
Lindberg Bros.	Missoula	11.68	3.10	Standard.
J. F. Miller	Missoula	12.33	3.70	Standard.
Thos. H. Gah	Missoula	12.31	3.85	Standard.
J. Fay	Red Lodge	13.66	4.35	Standard.
Wm. Rose Dairy	Red Lodge	12.62	3.80	Standard.
Chas. Halter	Red Lodge	12.54	3.50	Standard.
Ed. Schmett—Restaurant	Red Lodge	14.33	7.90	Low in solids.
W. E. Baumgitaer	Red Lodge	12.59	3.75	Standard.
Maverick Saloon	Helena	12.56	4.30	Low in solids.
Eddy Cafe	Helena	13.17	4.40	Standard.
Gold Bar Saloon	Helena	12.78	4.20	Standard.
Tip Top Grill	Helena	13.78	6.05	Low in solids.
Oxford Cafe	Bozeman	17.46	8.80	Standard.
I. J. Quinlan Dairy	Forsyth	13.22	4.55	Standard.
Smith Creek Dairy	Forsyth	12.74	4.00	Standard.
E. F. Christie	Lewistown	15.47	6.70	Standard.
Mrs. Solberg	Lewistown	.....	.....	Far broken, sample lost
Bright Hotel	Lewistown	12.92	3.95	Standard.
Lewistown Dairy	Lewistown	12.76	3.75	Standard.
Home Restaurant	Glendive	12.19	4.20	Low in solids.
Royal Cafe	Forsyth	13.96	4.95	Standard.
Home Dairy	Billings	12.41	3.60	Standard.
J. McIntyre	Billings	11.67	3.80	Low in solids.
Denver Lunch Room	Billings	13.38	4.30	Standard.
Boykin House	Billings	12.76	4.00	Standard.
Meadow Lark Dairy	Great Falls	11.15	3.25	Low in solids.
Great Falls Dairy	Great Falls	.....	3.95	Sour, not analyzed.

MILK ANALYSIS.—(Continued).

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
Fairview Dairy	Great Falls	11.47	3.25	Jar broken, sample lost.
Burlington Dairy	Great Falls	12.04	4.40	Analysis incomplete.
Wm. Grills	Great Falls	13.11	6.50	Standard.
Rainbow Hotel	Glendive	12.66	4.20	Standard.
Gnee Cafe	Glendive	13.12	4.30	Standard.
E. J. Berry	Glendive	13.95	4.90	Standard.
Ole Halverson	Lewistown	13.34	3.85	Standard.
Judith Dairy	Lewistown	13.20	3.90	Standard.
Dr. Bert Realty	Lewistown	12.74	3.65	Standard.
City Dairy	Lewistown (Cream)	40.23	34.30	Low in solids.
A. B. Powell	Lewistown	14.73	7.10	Low in solids.
Chas. Willard	Lewistown	14.73	3.50	Sour, not analyzed.
E. T. Keld	Miles City	11.64	2.55	Standard.
Wm. Taylor	Billings	13.22	4.00	Standard.
F. C. Andrews	Billings	12.04	3.50	Standard.
John McIntyre	Billings	12.40	3.70	Standard.
Eeraerts Bros.	Billings	12.25	3.55	Standard.
T-X Dairy	Billings	13.35	4.00	Standard.
R. L. Matheson	Billings	14.28	4.80	Standard.
A. Hornaday	Billings	13.31	4.10	Standard.
C. C. Barres	Billings	14.50	5.15	Standard.
J. L. White	Billings	12.54	3.50	Standard.
C. E. Snow	Billings	11.78	3.35	Standard.
E. J. Erwin	Billings	10.55	1.50	Low in fat.
T. Tanahara	Billings	13.40	4.70	Standard.
H. Stahl	Billings	12.54	3.75	Standard.
Bert and Fred Dawson	Billings	14.64	5.80	Standard.
Mrs. Grace Eddy	Billings	12.87	3.75	Standard.
Kain's Bungalow	Billings	20.28	11.90	Standard.
The Columbia	Billings	12.52	3.55	Standard.
John Borth	Miles City	11.90	2.30	Standard.
E. B. Butcher—Restaurant	Miles City	12.32	4.05	Standard.
Olive Hotel	Miles City	12.49	3.75	Standard.
Joe Shimza	Miles City	12.45	3.70	Standard.
Harry Swoink	Miles City	12.64	3.65	Standard.
Co-Operative Creamery	Miles City	15.01	5.40	Standard.
Geo. Sprandle	Helena	13.42	4.50	Standard.
A. Erb.	Helena	13.67	4.60	Standard.
L. A. Ramsey	Helena	12.97	3.90	Standard.
J. L. Bomgart	Helena	13.13	4.10	Standard.
Harry Burgess	Helena	13.13	4.10	Standard.

MILK ANALYSIS.—(Continued).

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
O. R. Samson	Helena	12.99	4.00	Standard.
Wm. Burton	Helena	13.47	4.50	Standard.
L. McKinney	Helena	12.55	3.73	Standard.
Dan O. Lager	Helena	12.90	4.10	Standard.
M.-s. J. Snyder	Helena	13.54	4.10	Standard.
A. M. Whitcomb	Helena	13.40	4.40	Standard.
S. J. Burgess	Helena	13.07	3.90	Standard.
James Mcher	Helena	12.17	3.30	Standard.
Joe Schnyder	Helena	12.88	3.70	Standard.
McComas & Middlemas	Helena	15.97	6.20	Standard.
F. R. Brewer	Helena	12.91	3.70	Standard.
Fred Behnorn	Helena	13.24	4.70	Standard.
D. A. McDonald	Helena	13.24	4.00	Standard.
A. G. Amacker	Helena	13.43	3.90	Standard.
W. F. Hamilton	Livingston	14.28	4.90	Standard.
Cliff McLeod	Livingston	13.79	4.60	Standard.
A. R. Schauke	Livingston	13.78	4.39	Standard.
H. McCoy	Livingston	13.01	4.00	Standard.
A. R. Moon	Livingston	.....	....	Jar broken, sample lost.
Ivin Eby	Livingston	13.14	4.00	Standard.
Davis Brothers	Livingston	12.07	3.40	Standard.
John Chaney	Livingston	13.33	3.80	Standard.
J. W. Bowen	Livingston	13.40	4.15	Standard.
Elk Cafe	Livingston	13.34	.....	Low in solids.
Geo. E. Voyer	Anaconda	13.70	10.85	Standard.
John Verlanic	Anaconda	13.26	5.50	Standard.
G. W. Orne	Anaconda	12.55	4.75	Standard.
V. I. Galle	Anaconda	12.72	3.70	Standard.
C. S. Sunderland	Anaconda	12.95	2.80	Standard.
Tom Budnick	Anaconda	13.99	4.05	Standard.
M. M. Jensen	Anaconda	13.59	5.59	Standard.
Poone & Manlove	Anaconda	12.16	5.20	Low in solids.
J. E. Bryson	Anaconda	12.07	3.60	Standard.
Peter Layetich	Anaconda	12.07	3.40	Standard.
Gerald Cafe	Anaconda	10.41	3.70	Low in solids.
F. Haeover	Great Falls	14.69	6.90	Standard.
M. Rystad	Great Falls	13.05	3.75	Standard.
N. Andrews	Great Falls	12.94	3.90	Low in solids.
Boston Heights	Great Falls	11.74	3.20	Low in solids.
Atlas Cafe	Great Falls	11.62	3.25	Standard.
Ayrshire	Great Falls	12.56	4.00	Standard.
	Great Falls	12.91	4.65	Low in solids.

MILK ANALYSIS.—(Continued).

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
Cloverleaf Dairy	Great Falls	12.72	3.50	Standard.
Fairview Dairy	Great Falls	13.89	4.05	Standard.
Great Falls Dairy	Great Falls	12.39	3.65	Standard.
Burlington Dairy	Great Falls	12.09	3.40	Standard.
Nat Simon	Butte	12.62	3.80	Standard.
Piazzola	Butte	13.01	4.00	Standard.
A. Martini	Butte	12.23	3.69	Standard.
Julius Rodoni	Butte	12.65	4.25	Standard.
I. D. Delmoe	Butte	12.44	3.50	Standard.
D. Gennara	Butte	13.35	4.00	Standard.
Berti Bros.	Butte	14.10	4.75	Standard.
Henry Pedretti	Butte	11.95	3.55	Standard.
Joe Bergtoglio	Butte	12.20	3.70	Standard.
Paul Maier	Butte	12.44	3.65	Standard.
Montana Dairy	Butte	12.50	3.79	Standard.
G. Roesti	Butte	12.30	3.70	Standard.
J. M. Courtney	Butte	12.24	3.65	Standard.
Anton Delmo	Woodville	16.13	7.40	Standard.
John Olds	Butte	.....	.....	jar broken, sample lost.
Geo. Mengon	Walkedville	.....	.....	jar broken, sample lost.
Chris Somnay	Butte	11.84	3.90	Low in solids.
McCabe & Lewis	Butte	12.38	4.70	Low in solids.
Rivera Bros.	Butte	11.17	3.40	Low in solids.
Mrs. Riddle	Butte	12.50	3.70	Standard.
Campana & Campana	Butte	12.02	3.60	Low in solids.
Edw. Tracy	Butte	12.45	3.50	Standard.
J. R. Robinson	Butte	12.50	3.80	Standard.
A. H. Marsh	Butte	13.50	4.50	Standard.
West Side Grocery	Butte	9.58	3.05	Low in solids and fat.
Mrs. H. Jonanen	Butte	12.61	4.10	Standard.
Little Vienna Cafe	Butte	12.42	3.95	Standard.
Chris Sonney	Butte	12.30	3.80	Low in solids.
Vienna Bakery	Butte	12.53	3.80	Standard.
Kalispell Creamery	Kalispell	13.66	4.15	Standard.
J. R. Lisble	Kalispell	11.57	3.20	Low in solids and fat.
R. Schaeffer	Kalispell	12.73	3.60	Standard.
Montana Restaurant	Kalispell	13.18	3.80	Standard.
Hotel Norden	Kalispell	13.06	3.80	Standard.
Kalispell General Hospital	Bozeman	15.02	5.70	Standard.
The Bungalow	Bozeman	.....	.....	.....
M. J. Aschm	Bozeman	.....	.....	.....

MILK ANALYSIS.—(Continued).

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
Gallatin Valley Club	Bozeman	12.79	3.75	Standard.
J. W. Edwards	Bozeman	12.60	3.60	Standard.
Tucker & Schmidt	Bozeman	12.34	3.55	Standard.
Bozeman Hotel	Bozeman	16.41	7.80	Standard.
G. L. Boylar	Bozeman	12.62	3.80	Standard.
Mrs. M. Langohr	Bozeman	12.82	3.66	Standard.
Holten Holkensen	Bozeman	12.89	3.75	Standard.
J. F. Donohoe	Bozeman	12.35	3.55	Standard.
Bozeman Hotel	Bozeman	10.06	1.40	Low in fat.
Travelers' Cafe	Bozeman	11.28	2.65	Low in fat.
City Restaurant	Bozeman	10.66	2.35	Low in fat and solids.
International Cafe	Bozeman	10.93	2.20	Low in fat.
Gallatin Hotel	Bozeman	11.03	2.10	Low in fat.
Star Cafe	Red Lodge	12.33	3.10	Low in fat.
Gleason's Cafe	Helena	8.79	0.70	Low in fat and solids.
H. M. Sattle	Helena	10.56	1.40	Low in fat.
Star Cafe	Billings	11.64	3.00	Low in fat.
N. P. Lunch Room	Billings	11.95	3.45	Standard.
J. H. Sandidge	Billings	12.22	3.90	Low in fat.
Roundup Club	Billings	11.76	3.60	Low in Solids.
Yellowstone Cafe	Billings	12.02	3.40	Standard.
Buzy Bee Cafe	Billings	11.11	2.25	Low in fat.
South Side Cafe	Billings	12.30	3.05	Low in fat.
Carlin Cafe	Billings	11.42	2.15	Low in fat.
N. P. Restaurant	Billings	11.07	2.15	Low in fat.
Cosmo Cafe	Billings	11.62	2.15	Low in fat.
Mrs. Cady	Big Timber	11.73	2.80	Low in fat.
Miles City Creamery	Miles City	11.73	2.95	Low in fat.
Capt. Johnson	Miles City	11.55	3.55	Low in fat.
Joe Meredith	Livingston	11.11	2.40	Low in Solids.
Popular Restaurant	Lewistown	11.96	2.50	Low in fat.
Louis Jose	Lewistown	10.40	1.50	Low in fat.
Grill Cafe	Lewistown	11.35	2.05	Low in fat.
L. W. Arthur—Restaurant	Glenlivet	11.58	2.60	Low in fat.
W. J. Conroy	Glenlivet	10.66	2.15	Low in fat.
Wm. Hessling	Hamilton	9.62	2.75	Low in fat and solids.
K. B. Melver	Great Falls	12.26	2.65	Low in fat.
K. B. Melver	Great Falls	10.32	2.70	Low in fat and solids.
Meadow Lark Dairy	Great Falls	11.69	3.00	Low in fat.
Gem Restaurant	Great Falls	10.32	3.05	Low in fat and solids.
Mint	Great Falls	9.84	1.30	Low in fat.
	Great Falls	11.30	2.95	Low in fat and solids.

MILK ANALYSIS.—(Continued).

Dealer.	Address.	Total Solids. (%)	Fat. (%)	Remarks.
Cafeteria	Great Falls	10.28	1.70	Low in fat.
Hamilton	Great Falls	8.96	0.60	Low in fat and solids.
L. R. Blaine	Anaconda	12.39	2.75	Low in fat.
W. H. Dunnigan	Anaconda	8.23	2.40	Low in fat and solids.
Wm. McMonigle	Anaconda	10.03	3.00	Low in fat and solids.
Mrs. Emma Delaney	Anaconda	9.84	2.80	Low in fat and solids.
Mrs. Frank Butler	Anaconda	11.09	1.95	Low in fat.
Mrs. J. E. Quane	Anaconda	10.14	2.90	Low in fat and solids.
Richard Flannery	Missoula	10.87	2.90	Low in fat and solids.
Chas. Martinson	Missoula	11.73	2.20	Low in fat.
E. Manion	Butte	11.13	3.95	Low in fat.
Dunigan Davey	Butte	11.47	4.05	Low in solids.
G. P. Shorey	Forsyth	9.13	0.90	Low in fat and solids.
Mrs. K. F. Files	Forsyth	7.32	0.20	Low in fat and solids.
G. P. Shoreys	Forsyth	10.69	3.05	Low in fat and solids.
N. P. Restaurant	Forsyth	10.58	2.60	Low in fat and solids.
N. P. Lunch Room	Forsyth	9.90	1.65	Low in fat and solids.
N. P. Lunch Room	Billings	9.80	1.50	Low in fat and solids.
J. M. Booth	Billings	11.54	3.00	Standard.
J. M. Booth	Billings (Cream)	7.89	1.80	Standard.
San Himis	Laurel (Cream)	24.10	17.50	Standard.
N. P. Lunch Room	Billings (Cream)	32.10	26.50	Standard.
T. C. Armitage	Billings (Cream)	27.10	20.80	Standard.
7-X Dairy	Billings (Cream)	27.84	21.50	Standard.
A. Laurens	Livingston (Cream)	28.14	22.00	Standard.
A. Laurens	Livingston (Cream)	28.1	33.75	Standard.
Park Restaurant	Livingston (Cream)	34.04	29.00	Standard.
Home Dairy	Livingston (Milk)	25.28	19.55	Low in fat.
7-X Dairy	Billings	12.93	3.95	Standard.
Jersey Dairy	Billings	12.70	3.70	Standard.
A. D. Hornaday	Billings	13.30	4.35	Standard.
Yellowstone Dairy	Billings	13.01	4.00	Standard.
Co-operative Creamery	Miles City	12.33	3.70	Standard.
Co-operative Creamery	Miles City	.....	3.65	Standard.
Co-operative Creamery	Miles City	.....	3.80	Standard.
Co-operative Creamery	Miles City	.....	4.00	Standard.
Co-operative Creamery	Miles City	.....	3.50	Standard.
Co-operative Creamery	Miles City	.....	3.65	Standard.
Co-operative Creamery	Miles City	.....	3.85	Standard.

COMMUNICABLE DISEASES REPORTED FOR THE MONTH OF APRIL, 1912.

SMALLPOX—Cases of Smallpox were reported as follows: Blaine, 1; Dawson, 1; Fergus, 2; Hill, 1; Valley, 10; total, 30; total last month, 45.

DIPHTHERIA—Cases of Diphtheria were reported as follows: Custer, 1; Anaconda, 2; Livingston, 1; Powell, 1; Silver Bow (Excl. of Butte), 1; Butte, 1; Valley, 1; total, 8; total last month, 5.

SCARLET FEVER—Cases of Scarlet Fever were reported as follows: Broadwater, 3; Carbon, 8; Anaconda, 1; Flathead, 1; Gallatin (Excl. of Bozeman), 6; Bozeman, 1; Missoula County, 6; Livingston, 1; Silver Bow (Excl. of Butte), 11; Butte, 8; Teton, 9; Billings, 3; total, 58; total last month, 53.

TYPHOID FEVER—Cases of Typhoid Fever were reported as follows: Great Falls, 1; Dawson, 1; Fergus, 1; Hill, 1; Jefferson, 1; Madison, 1; Meagher, 1; Missoula City, 1; total, 8; total last month, 10.

MEASLES—Cases of Measles were reported as follows: Blaine, 1; Carbon, 1; Great Falls, 2; Dawson, 4; Gallatin (Excl. of Bozeman), 4; Bozeman, 1; Hill, 36; Helena, 6; Missoula City, 2; Rosebud, 1; Teton, 1; Billings, 1; total, 58; total last month, 87.

**DEATHS (EXCLUSIVE OF STILLBIRTHS) REPORTED TO THE STATE
BOARD OF HEALTH FOR THE MONTH OF APRIL 1912, ARRANGED
ACCORDING TO COUNTIES AND CITIES.**

Totals	All Other Causes	Alcoholism	Suicide	Violence	Acute Intestinal Diseases	Malignant Tumors	Organic Heart Disease	Nephritis	Pneumonia	Whooping Cough	Meningitis	Typhoid Fever	Measles	Scarlet Fever	Diphtheria	Tuberculosis	Small Pox	Spotted Fever
Beaverhead	2	1	1					1										
Broadwater	1	1																
Carbon	3	3					1		2	1								
Cascade (Excl. of)	5	1			1													
Great Falls	13	5				2				1		1			1			
Chouteau	4									1								
Custer	7	3			3					1								
Dawson	9	3			3					1								
Deer Lodge (Excl. of)	10	8			1													
Anaconda	8	6							2									
Fergus	14	3							1	1								
Flathead (Excl. of)	3	1			3									1				
Kalispell	12	3				1				1		1						
Gallatin (Excl. of)	9	5			1		4		1	1				1				
Bozeman	7	1							2									
Granite	4	1							1									
Jefferson	2							1										
Lewis and Clark (Excl. of)	5	1							1	1								
Helena	22	6				5		2										
Lincoln	2	2																
Madison	5	4																
Meagher	1																	
Missoula (Excl. of)	14	3				2		1	1	3								
Missoula City	15	5					1		4									
Musselshell	3	1			1													
Park (Excl. of)	8	4							3									
Livingston	7	3							3						1			
Powell	4					2												
Ravalli	7	2				1			2									
Rosebud	1	5																
Sanders	1																	
Silver Bow (Excl. of)	28	3				3		3	4	3				1				
Butte	43	12				3		3						1				
Sweet Grass	3																	
Teton	8	1												1				
Valley	10	4				1		1										
Yellowstone Excl. of)	11	6							2									
Billings	12	3						1										
Hill	7	5						1										
Blaine	2								1									
TOTALS	346	121	4	6	35	16	38	30	35	7	8	1	4	3	30	3	30	..

Population—375,000.

Monthly death rate per 1,000 population .812.

Annual death rate per 1,000 population 11.07.

**BIRTHS REPORTED TO THE STATE BOARD OF HEALTH FOR THE
MONTH OF APRIL, 1912, AND COMPARATIVE BIRTH AND
DEATH RECORD IN THE STATE.**

	Males	Females	Totals	Deaths	Excess of births	Excess of deaths
Beaverhead	3	5	2	4	1	..
Broadwater	6	1	7	2	5	..
Carbon	12	9	21	8	13	..
Cascade (Excl. of)	11	7	18	16	12	..
Great Falls	21	16	37	13	24	..
Chouteau	4	1	5	4	1	..
Custer	9	18	27	7	20	..
Dawson	17	14	31	9	22	..
Deer Lodge (Excl. of) .....	..	..	..	10	..	19
Anaconda	9	10	19	8	11	..
Fergus	11	11	22	14	8	..
Flathead	14	11	25	12	13	..
Kalispell	14	10	24	9	15	..
Gallatin (Excl. of)	5	10	15	7	8	..
Bozeman	7	5	12	4	8	..
Granite	1	2	3	2	1	..
Jefferson	3	6	9	2	7	..
Lewis and Clark (Excl. of)	6	2	8	5	3	..
Helena	10	8	18	22	..	4
Lincoln	2	2	4	2	2	..
Madison	5	3	8	5	3	..
Meagher	6	3	9	1	8	..
Missoula (Excl. of)	13	7	19	14	5	..
Missoula City	13	8	20	15	5	..
Musselshell	8	7	15	3	12	..
Park (Excl. of)	1	5	6	8	..	2
Livingston	6	3	9	7	2	..
Powell	8	5	13	4	9	..
Ravalli	10	8	18	7	11	..
Rosebud	3	3	6	7	..	1
Sanders	5	4	9	1	8	..
Silver Bow (Excl. of)	19	10	29	28	1	..
Butte	40	30	70	43	27	..
Sweet Grass	2	4	6	3	3	..
Teton	12	13	25	8	17	..
Valley	10	13	23	10	13	..
Yellowstone (Excl. of)	12	9	21	11	10	..
Billings	19	14	33	7	26	..
Hill	7	5	12	12	..	..
Blaine	3	6	9	2	7	..
TOTALS	365	305	670	346	341	..